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FIG. 1B



to the first of the second of 1 TTAAGGTAGGAAGGATTTCAGGCTCTATTTACATAATTGTTCTTTCCTTTTCACACAGAA 60 3. 1 . 7. 7. 61 TCCCTTTTTAGAAGTCAAGGTGACAGACACCCAAGAGGTCCCGGAGAGACTTTGGGCT 120 P F L E V K V T D T P K R S R R D F G L 121 TGACTGCGATGAGCACTCCACGGAATCCCGGTGCTGCCGCTACCCCCTCACGGTCGATTT 180 D C D E H S T E S R C C R Y P L T V D F 181 TGAAGCCTTTGGATGGGACTGGATTATCGCACCCAAAAGATATAAGGCCAATTACTGCTC 240 EAFGWDWIIAPKRYKANYCS 241 AGGAGAGTGTGAATTTGTGTTTTTACAAAAATATCCGCATACTCATCTTGTGCACCAAGC 300 G E C E F V F L Q K Y P H T H L V H Q A 301 AAACCCCAGAGGCTCAGCAGGCCCTTGCTGCACTCCGACAAAAATGTCTCCCATTAATAT 360 N P R G S A G P C C T P T K M S P I N M 361 GCTATATTTTAATGGCAAAGAACAAATAATATATGGGAAAATTCCAGCCATGGTAGTAGA 420 LYFNGKEQIIYGKIPAMVVD 421 CCGCTGTGGGTGCTCATGAGCTTTGCATTAGGTTAGAAACTTCCCAAGTCATGGAAGGTC 480 RCGCS \* 481 TTCCCCTCAATTTCGAAACTGTGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGC 540 541 GGCCGCCACC 550

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#### FIG. 2A

1 CAAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGAT 60 K R S R R D F G L D C D E H S T E S R C 61 GCTGTCGTTACCCTCTAACTGTGGATTTTGAAGCTTTTGGATGGGATTGGATTATCGCTC 120 CRYPLTVDFEAFGW D 121 CTAAAAGATATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGTATTTTTACAAAAAT 180 K R Y K A N Y C S G E C E F V F LOKY 181 ATCCTCATACTCATCTGGTACACCAAGCAAACCCCAGAGGTTCAGCAGGCCCTTGCTGTA 240 P H T H L V H Q A N P R G S A G P C C T 241 CTCCCACAAGATGTCTCCAATTAATATGCTATATTTTAATGGCAAAGAACAAATAATAT 300 PTKMSPINMLYFNGKEQIIY 301 ATGGGAAAATTCCAGCGATGGTAGTA 326 GKIPAMVV

FIG. 2B



ე ე GAC ACA CCC AAG AGG TCC D T P K R S GTC AAA GTA ACA @ GAA E T L ĒΨ ပ္ပ CTG AAT . 999 9 GAT D E A

ပ္ပ TAC Y ე ე TGT C ည် 06G R 755 S GAA E TCC ACG ( CAC H GAA E GAT D <u>Т</u>бТ GAC D 999 9 Eω o gac A GA

HERTER ASSETTLY COLOR TO STANK AND COLOR TO STANK COLOR OF THE AD-AAG K AGA TAT R Y ¥× ATT GCA CCC , I A P ATT GAC TGG / D W 766 ₩ 66A G Eu . 229 V GAA E 5F -R GAT D GTC V ACG T CTC

A H ACT. EAT H ე ე TTA CAA AAA TAT C L Q K Y GTG TTC V F Er GAA E GAG TGT ( E C 66A 6 S S ည် AAT TAC . N Y GCT A

AA × ¥Ç ► S P TGC ACG C ည် 7 T GCA GGC A G 77G S ၁ဗ္ဗ CCC AGA ( N AC GCA A CAA E & 6TG ^

F -

χ. <u>Υ΄</u> Δ΄ 999 GGC AAA GAA CAA ATA ATA TAT G K E Q I I Y AAT N Er CTA TAT ' ATG M CCC ATT AAT / Ω S

S TAA AAT TTG ( TTG CAT TAG CTT TCG TGA GCT 1 S ည် . 999 TGT C 9 9 8 GTA GAC ( V D GTA V ATG 900 P

TAG <u>9</u> TTT ATG TAC CAC AGG CGA AAC TGT GAA E TCC CCT CGA GGA AGG TCT CGT AAT

RAT GDF-8 FIG.



 To Date the approximation was a LOT A STACK MOUNT AND LOT THE STATE OF ACG GAA **TGT** AAC TGA CAT STO ₹o TGT AA AA LT AG CT TG SG CG CT AAA AA TT AG CT ပ္ပ ₩ ည္ဟ TAT ည္ပပ AT FT AA AT CT TT CT TT CT AA AT C AA AT C A AT C A

ar on a system of the system.



## zebrafish.nucleotide [Strand]

CGGAGGAGGC GACCACCGTC TYCTTACAGA TATCTCGGCT GATGCCCGTT AAGGACGGAG GAAGACACCG TICTICCTICA GICCGAAGAI CCAAGCGAAC CGGAICGIAA GAGCGCAGCI CIGGGIICAT CIGAGACCGG GACCATCATG ACCATGGCCA CAGAACCTGA CCCCATTGTT CAAGTAGATC GGAAACCGAA GTGTTGCTTT TAACGGCGCA CCAGCAGCCT TCCACAGCCA CGGAGGAAAG CGAGCTGTGT TCCACATGTG AGTTCAGACA ACACAGCAAG CTGATGAGAC TGCATGCCAT CAAGTCCCAA ATTCTTAGCA AACTCCGACT CAAGCAGGCT AGTACGATGT TTTAGGAGAT GACAGTAAGG ATGGAGCTGT GGAAGAGGAC GATGAACATG CCACCACAGA ATGCATTITA CACAGGITIT AATTICTCIA AGIGIATIAA ITGCAIGIGG ICCAGIGGGI IATGGAGAIA CCAAACATCA GCCGGGACGT GGTCAAGCAG CTGTTACCCA AAGCACCGCC TTTGCAACAA CTTCTGGATC Q V D R K P K C C F Ω QYDV LGD DSKD GAV EED DEHA S T C B F R LRLSKO S R D V V K Q L L P K A P P L Q Q L L Ö Ö ပ > Ω × × RAQL Q ELC ъ а Q I L S ບ K × SVLI L T M A T E P D P I V S R I V × STATEE လ S × н LMRLHAI N V O S r o Н [I4 S P K I а 0 0 בו > ۲ ø E I T A H X H ø × ы S ы 491 421 281 351 211 141 71

# FIG. 2E-1



срумить оку витнич TACTITAACG GCAAAGAGCA GATCATCTAC GGCAAGATCC CITCGATGGT AGTAGACCGC TGTGGCTGCT ACGACTIGGC CGTCACTICA ACCGAGACTG GGGAGGATGG ACTGCTCCCC TTTATGGAGG TGAAAATATC AGAGGGCCCA AAACGAATCC GGAGGGACTC CGGACTGGAC TGCGATGAGA ATTCCTCAGA GTCTCGCTGC CAAGGCCAGT CCGAGAGGAA CGGCTGGGCC CTGCTGCACT CCCACCAAGA TGTCTCCCAT CAAGATGCTT TGCAGGTACC CTCTCACTGT GGACTTCGAG GACTTTGGCT GGGACTGGAT TATTGCTCCA AAACGCTATA AGGCGAATTA CTGTTCAGGA GAATGCGACT ACATGTACCT GCAGAAGTAT CCCCACACCC ATCTGGTGAA AATACGATCC CTGAAAATCG ACGTGAACGC AGGAGTCACG TCTTGGCAGA GTATAGACGT AAAGCAGGTG CTCACGGTGT GGTTAAAACA ACCGGAGACC AACCGAGGCA TCGAGATTAA CGCATATGAC GCGAAGGGAA SESRC K CRYP LTV DFE DFGW DWI TAP KR A A M E V **>** Ω A Y D ഗ KRIR RDS GLD CDEN S н ſτι PTKM S > > EH LLP ø 3 ഗ S NRGI Д C C D D B н H > × O G T A G P T G 田田 ı Y N 回 ۵ م ш E ø ა დ TVWLKQ ß P R G 凹 H × I N NDLAV KANYC O ß z G CATGA 1121 1051 911 981 841 561 701 771 631

FIG. 2E-2



# salmon GDF-8.nucleotide1 [Strand]

GGCAGCCGGA GACGAATTGG GGGATCGAGA TTAATGCGTT CGACTCGAAG GGAAATGATC TGGCCGTTAC G N D L A V T CTCAGCAGAA GCGGGAGAAG GACTGCAACC CTTCATGGAG GTGACGATTT CAGAGGGCCC GAAGCGCTCC TGAGTGTGAG TACATGCACC TGCAGAAGTA CCCCCACACC CACCTGGTGA ACAAGGCTAA CCTTGGCGGC ACCGCAGGGC CCTGCTGCAC CCCCACCAAG ATGTCCCCCA TCAACATGCT CTACTTCAAC CGCAAAGAGC AGGAGAGACT CGGGCCTGGA CTGTGACGAG AACTCCCCCG AGTCCCGCTG TTGCCGCTAC CCCCTCACGG TAGACITIGA AGACITIGGC IGGGACIGGA ITATIGCCCC CAAGCGCIAC AAGGCCAACI ACIGCICIG E YMHL QKY PHT HLVNKAN PRG R Y K A N Y C S TAGPCATCATCTA CGCCAAGATC CCCTCCATGG TGGTGGACCG TTGCGGATGC TCGTGA ე ე AGATCATCTA CGCCAAGATC CCCTCCATGG TGGTGGACCG TTGCGGATGC TCGTGA AGEG LQP FME VTIS E S G L D C D E N S P E S R C ပ S Ω × O ĸ IIAP I N A F Ω > > Σ G H S R C W S 3 Z D F ပ ۲ ⊁ H ပ 421 351 211 281 141 7

## FIG. 2F



# salmon GDF8.nucleotide2 [Strand]

FED FGWD WII APKRYKA NYC CGCGGCACCG CGGGGCCCTG CTGCACCCCC ACCAAGATGT CCCCCATCAA CATGCTCTAC TTCAACCGCA CTCTGGTGAG TGCGAGTACA TGCACCTGCA GAAGTACCCC CACACCCACC TGGTGAACAA GGCTAACCCT TCACGGTGGA CITIGAAGAC TITGGCTGGG ACTGGATTAT TGCCCCCAAG CGCTACAAGG CCAACTACTG SCITACCICA ACTGAAGCCG GAGAAGGACT GCAACCCITIC ATGGAGGTGA AGAITITCGGA GGGCCCGAAG CECTCCAGGA GAGATYCGGG CCTGGACTGT GATGAGAACT CCCCCGAGTC CCGCTGCTGC CGGTACCCC R Y AAGAGCAGAT CATCTACGGC AAGATCCCCT CCATGGTGGT GGACCGCTGC GGCTGCTCGT GA RSRR DSG LDC DENS PES RCC CEYMHLQ KYP HTHL VNK ੂੰ ਪ ਸ н × SPIN > = Σ QPF R G T A G P C C T P T K M Σ ഗ E G E O T E A L T V D ы 9 ø Ш 351 141 211 281 11

FIG. 2G



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SRRDFGLDCDEHSTESRCCRYPLTVDF-EAFGWD-WIIAPKRYKANYCSGEGEFVFLQKYP-RPRDAEPVLGGGPGGACRARRLYVSF-REVGWHRWVIAPRGFLANYCOGOCALPVALSGSGGPREKRQKHKQRKRLKSSCKRHPLYVDF-SDVGWNDWIVAPPGYAFYCHGEOFFLADHLNS-KRSPKHHSQRARKKNKNCRRHSLYVDF-SDVGWNDWIVAPPGYQAFYCHGDOFFLADHLNS-SRGSGSSDYNGSELKTACKHELYVSF-QDLGWQDWIIAPKGYAANYCDGEGSFPLNAHMNA-LRMANVAENSSDQRQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCGGGAFFLNSTMNA-SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAYCGGCGFFLNSTMNA-SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAYCGGCGFFLNSTHNA-EQTLKKARRKQWIEPRNCARRYLKVDF-ADIGWSEWIISPRSTIFHYCHGGCGLHIPPNLSLPV-ALRLLQRPPEEPAAHANCHRVALNISF-QELGWERWIVYPPSFIFHYCHGGCGLHIPPNLSLPV-HRRRRGLECDGRV-NICCKRQFFIDF-RLIGWNDWIIAPTGYYGNYCGGSCPAYLAGVGSSSS-HRRRRGLECDGRY-NLCCRQQFFIDF-RLIGWNDWIIAPTGYYGNYCGGSCPAYLAGVGSSSS-HRRALDTNYCFSSTEKNCCVRQLYIDFRRDLGWK-WIHEPKGYYANFCLGFGCPYLWSSD-KKRALDTNYCFSRNUGCNRPLYIDFRRDLGWK-WHEPKGYYANFCLGFGCPYLRSAD-KRRALDTNYCFRNUEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFCLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFCLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFCLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRRDLGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRGUGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRGUGWK-WHEPKGYYANFGLGFGCPYLRSAD-KRRALDTNYCFRNLEENGCVRPLYIDFRGUGWK-WHEPKGYYANFGLGFGCPALTRUKTNUTTNYCFRNLEENGCVRPLYIDFRGUGWK-WHEPKGYYANFGLGFGCPALTRUKTNYCFRUCHTNYCFR	-HTHLVHQANPRG———SAGPCCT—PTKMSPINMLYF-NGKEQIIYGKIPAMVVDRCGCS  ALNHAVLRALMHA——AAPGAADLPCCV—PARLSPISVLFF-DNSDNVVLRQYEDMVVDECGCR -TNHAIVQTLVNS——VNSKIPKACCV—PTELSAISMLYL-DENEKVVLKNYQDMVVEGCGCR -TNHAIVQTLVHL—MNPEYVPKPCCA—PTKLNAISVLYF-DDNSNVILKKYRNMVVRACGCH -TNHAIVQTLVHF—INPETVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -NHATIQSIVRA—VGVVPGIPEPCCV—PTKMSSLSILFF-DENKNVULKVYPNNILTCHCACI -PGAPPTPAQPYS——LLPGAQPCCAALPGTMRPLHVRTTSDGGYSFKYETVPNILTCHCACI -SFHSTVINHYRMRGHSPFANLKSCCV—PTKLRPMSMLYY-DDGQNIIKKDIQNMIVEECGCS -SFHTAVVNQYRMRGLNPGT-VNSCCI—PTKLSTMSMLYF-DDEYNIVKRDVPNMIVEECGCA -TQYSKVLALYNQ—HNPGASAAPCCV—PQALEPLPIVYY-VGRKPKV-EOLSNMIVRSCKCS	SQDLEPLTILYY-IGKTPKI-EQLSNMIVKSCKC 
GDF-8 GDF-1 BMP-2 BMP-4 Vgr-1 CP-1 BMP-5 BMP-3 MIS InhibinbβA InhibinbβB TGF-β1 TGF-β2	GDF-8 GDF-1 BMP-2 BMP-4 Vgr-1 OP-1 BMP-5 BMP-3 MIS Inhibin \$\alpha\$ Inhibin \$\alpha\$ Inhibin \$\alpha\$ Inhibin \$\alpha\$ Inhibin \$\alpha\$ Inhibin \$\alpha\$	$TGF-\beta 2$ $TGF-\beta 3$



<u>MOKLOLOVYIYLFMLIVAGPVDLNEMSEOKENVEKEGLCNACIWRONTKSSRIEAIKIQILSKLRLETAPNISKOVIRQ</u> MMQKLQMYVYIYLFMLIJAJAGPVDLNEJGSEKEENVEKEGLCNACJAMRQNTJRYSRIEAIKIQILSKLRLETAPNISKDAJIRQ

rat human murine

rat

chicken

human murine <u>LLPKAPPLRELIDQYDVQRDDSSDGSLEDDDYHATTETIITMPTESDFLMQVDGKPKCCFFKFSSKIQYNKVVKAQLWIY</u> <u>Llprapplrelidoydvorddssdgsledddyhattetiitmptesdflmordgrekccffkfsskigynkvvkaglwiy</u> chicken

LVVKAQLWIY

240

<u>LRPVETPTTVFVQILRLIKPMKDGTRYTGIRSLKLDMNPGTGIWQSIDVKTVLQNWLKQPESNLGIEIKALDENGHDLAV</u> lrpvkhpttvevoilrlikpmkdgtrytgirslkidmspgtgiwosidvktvlonwlkopesnigieikaldenghdlav rat human murine

<u>LRQVQKPTTVFVQILRLIKPMKDGTRYTGIJGSLKLDMNPGTGIWQSIDVKTVLQNWLKQPESNLGİEIKAFPETIGRADLAV</u>

241

chicken

EDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQ <u>TFPGPGEDGLNPFLEVRVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLO</u> TFPGPGEDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQ rat human murine chicken

KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS **KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS** 

rat

chicken

murine

human



murine zebrafish salmon1 salmon2	murine zebrafish salmoni salmon2	murine zebrafish salmoni salmon2	murine zebrafish salmon1	murine zebrafish salmon1 salmon2
10 1 M M Q K L Q M Y V Y I Y L F M L I A A G P V D L N E G S E R 1 M H F T Q V L I S L S V L I A C G P V G Y G D I T A H 1	31 E E N V E K E G L C N A C A W R Q N T R Y S R I E A I 28 Q Q P S T A T E E S E L C S T C E F R Q H S K L M R L H A I 1	58 K I Q I L S K L R L E T A P N I S K D A I R Q L L P R A P P P S K S Q I L S K L R L K Q A P N I S R D V V K Q L L P K A P P I S K L R L R L R L R L R L R L R L R L R L	100 110 120 18 L Q Q L L D Q Y D V Q R D D S K D G S L E D D D Y H A T T E 1	118 T I I T M P T E S D F L M Q A D G K P K C C F F K F S S K I  118 T I M T M A T E P D P I V Q V D R K P K C C F F S F S P K I  1

FIG. 3C



-	Man. 🛌 geret op ek	ner udsukku e ead in Grand in dan de	the sales of the s	
murine zebrafish salmon1 salmon2	murine zebrafish salmon1	murine zebrafish salmoni salmoni	murine zebrafish salmon1 salmon2	murine zebrafish salmon1
160	190	230 240 V K T V L Q N W L K Q P E S N L G I E I K A L D E N G H D m V K Q V L T V W L K Q P E T N R G I E I N A Y D A K G N D S C C C C C C C C C C C C C C C C C C	250 260 270 A V TF P G P G E D G L N P F L E V K V T D T P K R S R R M R V T S T E T G E D G L L P F M E V K I S E G P K R I R R S R R S A V T S A E A G E - G L Q P F M E V T I S E G P K R S R R S - V T S T E A G E - G L Q P F M E V K I S E G P K R S R R R S R R R R R R R R R R R R R R R R R R R R	280 FGLDCDEHSTESRCCRYPLTVDFEAFGWD mSGLDCDENSSPESRCCRYPLTVDFEDFGWD s
148 1488 1 000	178 T 178 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	208 206 1 - 1	238 236 20 1 1	268 266 D 49 D

## FIG. 3D

salmon2

D M D

D Fi

TVDF

SRCCRYPL

S P E

CDEN

GLD

28 D S



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		salmon1		murine	zebrafish	salmonl	salmon2			murine	zebrafish	salmonl	salmon2
330	Y P H T H Y P H T H	күрнтникүрнтни	360	MLYFNGK	MLYFNGK	MLYFNRK	MLYFNRK						
320	V F L Q	Y M H L Q	350	N	И П	MSPINI	MSPINI			ഗ	ഗ	ഗ	S
	လ လ ဝ ဝ	S S S S S S S S S S S S S S S S S S S		CTPTK	CTPTK	ပ	CTP			DRCG	D R G	D R C	D R C G
310	X A N N N N	K K N N	340	1	GTAGPC	GTAGPC	- 1		370	IPAMVV	д		IPSMVV
	I A P K I A P K	I A P		OAN	KASPR	K A N	IKANPR			IIYGK	IIY	OIIY GK	I I Y
	Z Z	79 W I		328 V H	326 V N	109 V N	88 V N			至 28 E	26 E	139 E Q	18 臣

FIG. 3E

Decoration 'Decoration #1': The outlined residues that

match the Concensus exactly.

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TGF− <b>β</b> 3	33	28	32	37	82	82	37	22	36	35	33	<b>8</b>	છ્ર	32	25	24	36	33	200	82	8
TGF- <b>β</b> 2	32	28	3	34	36	35	37	.25	34	33	33	ဆွ	33	32	. 23	22	37	34	74	6	
TGF- <b>β</b> 1											33			-	٠.	73	7	32	. 6	· . ! .	
InhibinβB	35	25	41	37	33	36	42	3	42	45	41	42	37			25			1		<u></u>
InhibinβA	37	32	42	40	43	41	38	ಜ	42	4	44	43	43	36	24	97	.001		ı	ı	1
Inhibinα														53	<u></u>	8	1	<u> </u>	1	1	i
MIS													24	23	8	1	ı	ı	ı	1	1
BMP-3	-												5	8	1	1	1	ı	ı	ı	1
BMP-5														, –	ı	1	1	ı		ı	1
OP-1										82	ľ. ·				ı	,	1	ı	ı	ı	ı
Vgr-1										9	١.		. • •	1				ł			
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BMP-2									ŀ • <i>.</i>		1	,		,	` 1			1			
GDF-9								_	┶┷	•	j			,		Ċ			Ì		Ċ
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GDF-8						0 37	, _							1		1					
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GDF-3			5	i	ı	ı	1	f	1	1	ı	Í	ı	1	·I	1	ı	1	ı	ŧ	ı
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GDF-1									1	1	1	ı	1	1	ı	ť	ı	ı	1	1	ł
	GDF-1	GDF-2	GDF-3	GDF-5	GDF-6	CDF-7	CDF-8	CDF-9	BMP-2	BMP-4	Vgr-1	0P-1	BMP-5	BMP-3	MIS	Inhibina	InhibingA	Inhibin &B	TGG-81	TGF-β2	TGF-\$3

FIG. 4



1 GTCTCTCGGACGGTACATGCACTAATATTTCACTTGGCATTACTCAAAAGCAAAAGAAG 60 61 AAATAAGAACAAGGGAAAAAAAGATTGTGCTGATTTTTAAAATGATGCAAAAACTGCA 120 PROTATE AND AND AND ALL AND AND MEDICAL MEDICAL POPULATION OF THE PROTECTION OF THE 121 AATGTATGTTTATATTTACCTGTTCATGCTGATTGCTGCTGGCCCAGTGGATCTAAATGA 180 M Y V Y I Y L (FAMBLECTIBLANCA) G PAV V D L N E 181 GGGCAGTGAGAGAAAAATGTGGAAAAAGAGGGGCTGTGTAATGCATGTGCGTGGAG 240 G S E R E E N V E OK E E G L C N A C A W R 241 ACAAAACACGAGGTACTCCAGAATAGAAGCCATAAAAATTCAAATĆCTCAGTAAGCTGCG 300 Q N T R Y S R I E A I K I Q I L S K L R 301 CCTGGAAACAGCTCCTAACATCAGCAAAGATGCTATAAGACAACTTCTGCCAAGAGCGCC 360 LETAPNIS KDAIRQLLPRAP 361 TCCACTCCGGGAACTGATCGATCAGTACGACGTCCAGAGGGATGACAGCAGTGATGGCTC 420 P L R E L I D Q Y D V Q R D D S S D G S 421 TTTGGAAGATGACGATTATCACGCTACCACGGAAACAATCATTACCATGCCTACAGAGTC 480 LEDDDYHATTETIITMPTES 481 TGACTTTCTAATGCAAGCGGATGGCAAGCCCAAATGTTGCTTTTTTAAATTTAGCTCTAA 540 D F L M Q A D G K P K C C F F K F S S K 541 AATACAGTACAACAAAGTAGTAAAAGCCCAACTGTGGATATATCTCAGACCCGTCAAGAC 600 IQYNKVVKAQLWIYLRPVKT 601 TCCTACAACAGTGTTTGTGCAAATCCTGAGACTCATCAAACCCATGAAAGACGGTACAAG 660 TTVFVQILRLIKPMKDGTR 661 GTATACTGGAATCCGATCTCTGAAACTTGACATGAGCCCAGGCACTGGTATTTGGCAGAG 720 Y T G I R S L K L D M S P G T G I W Q S 721 TATTGATGTGAAGACAGTGTTGCAAAATTGGCTCAAACAGCCTGAATCCAACTTAGGCAT 780 I D V K T V L Q N W L K Q P E S N L G I 781 TGAAATCAAAGCTTTGGATGAGAATGGCCATGATCTTGCTGTAACCTTCCCAGGACCAGG 840 EIKALDENGHDLAVTFPGPG EDGLNPFLEVKVTDTPKRSR 901 GAGAGACTTTGGGCTTGACTGCGATGAGCACTCCACGGAATCCCGGTGCTGCCGCTACCC 960 RDFGLDCDEHSTESRCCRYP 961 CCTCACGGTCGATTTTGAAGCCTTTGGATGGGACTGGATTATCGCACCCAAAAGATATAA 1020 LTVDFEAFGWDWIIAPKRYK 1021 GGCCAATTACTGCTCAGGAGAGTGTGAATTTGTGTTTTTACAAAAATATCCGCATACTCA 1080 ANYCSGECEFVFLQKYPHTH 1081 TCTTGTGCACCAAGCAAACCCCAGAGGCTCAGCAGGCCCTTGCTGCACTCCGACAAAAT 1140 LVHQANPRGSAGPCCTPTKM 1141 GTCTCCCATTAATATGCTATATTTTAATGGCAAAGAACAAATAATATATGGGAAAATTCC 1200 S P I N M L Y F N G K E Q I I Y G K I P 1201 AGCCATGGTAGTAGACCGCTGTGGGTGCTCATGAGCTTTGCATTAGGTTAGAAACTTCCC 1260 A M V V D R C G C S \*

FIG. 5A



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1261 AAGTCATGGAAGGTCTTCCCCTCAATTTCGAAACTGTGAATTCAAGCACCACAGGCTGTA 1320
1321 GGCCTTGAGTATGCTCTAGTAACGTAAGCACAAGCTACAGTGTATGAACTAAAAGAGAGA 1380
1381 ATAGATGCAATGGTTGGCATTCAACCACCAAAATAAACCATACTATAGGATGTTGTATGA 1440
1441 TTTCCAGAGTTTTTGAAATAGATGGAGATCAAATTACATTTATGTCCATATATGTATATT 1500
1501 ACAACTACAATCTAGGCAAGGAAGTGAGAGCACATCTTGTGGTCTGAGTTAGGAGGG 1560
1561 TATGATTAAAAGGTAAAGTCTTATTTCCTAACAGTTTCACTTAATATTTACAGAAGAATC 1620
1621 TATATGTAGCCTTTGTAAAGTGTAGGATTGTTATCATTTAAAAACATCATGTACACTTAT 1680
1681 ATTTGTATTGTATACTTGGTAAGATAAAATTCCACAAAGTAGGAATGGGGCCTCACATAC 1740
1741 ACATTGCCATTCCTATTATAATTGGACAATCCACCACGGTGCTAATGCAGTGCTGAATGG 1800
1861 GTGCATCTCCACACACACACACACTAAGTGTTCAATGCATTTTCTTTAAGGAAAGAAGAAT 1920
1921 CTTTTTTCTAGAGGTCAACTTTCAGTCAACTCTAGCACAGCGGGAGTGACTGCTGCATC 1980
1981 TTAAAAGGCAGCCAAACAGTATTCATTTTTAATCTAAATTTCAAAATCACTGTCTGCCT 2040
2041 TTATCACATGGCAATTTTGTGGTAAAATAATGGAAATGACTGGTTCTATCAATATTGTAT 2100
2101 AAAAGACTCTGAAACAATTACATTTATATATATATGTATACAATATTGTTTTGTAAATAAG 2160
2161 TGTCTCCTTTTATATTTACTTTGGTATATTTTTACACTAATGAAATTTCAAATCATTAAA 2220
2221 GTACAAAGACATGTCATGTATCACAAAAAAGGTGACTGCTTCTATTTCAGAGTGAATTAG 2280
2281 CAGATTCAATAGTGGTCTTAAAACTCTGTATGTTAAGATTAGAAGGTTATATTACAATCA 2340
2341 ATTTATGTATTTTTACATTATCAACTTATGGTTTCATGGTGGCTGTATCTATGAATGTG 2400
2401 GCTCCCAGTCAAATTTCAATGCCCCACCATTTTAAAAATTACAAGCATTACTAAACATAC 2460
2461 CAACATGTATCTAAAGAAATACAAATATGGTATCTCAATAACAGCTACTTTTTTATTTTA 2520
2521 TAATTTGACAATGAATACATTTCTTTTATTTACTTCAGTTTTATAAATTGGAACTTTGTT 2580
2581 TATCAAATGTATTGTACTCATAGCTAAATGAAATTATTTCTTACATAAAAATGTGTAGAA 2640
2641 ACTATAAATTAAAGTGTTTTCACATTTTTGAAAGGC 2676
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FIG. 5B



 Consignation of the Property of the Construction of t 1 AAGAAAAGTAAAAGGAAGAACAAGAACAAGAAAAAAAGATTATATTGATTTTAAAATCAT 60 61 GCAAAAACTGCAACTCTGTTTTATATTTTACCTGTTTTATGCTGATTGTTGCTGGTCCAGT 120 Q K L Q L C V Y I Y L F M L II V A G P V 121 GGATCTAAATGAGAACAGTGAGCAAAAAGAAAATGTGGAAAAAGAGGGGGCTGTGTAATGC 180 D L N E N S E Q K E N V E K E G L C N A 181 ATGTACTTGGAGACAAAACACTAAATCTTCAAGAATAGAAGCCATTAAGATACAAATCCT 240 C T W R Q N T K S S R I E A I K I Q I L 241 CAGTAAACTTCGTCTGGAAACAGCTCCTAACATCAGCAAAGATGTTATAAGACAACTTTT 300 S K L R L E T A P N I S K D V I R Q L L 301 ACCCAAAGCTCCTCCACTCCGGGAACTGATTGATCAGTATGATGTCCAGAGGGATGACAG 360 P K A P P L R E L I D Q Y D V Q R D D S 361 CAGCGATGGCTCTTTGGAAGATGACGATTATCACGCTACAACGGAAACAATCATTACCAT 420 SDGSLEDDУНАТТЕТІІТМ 421 GCCTACAGAGTCTGATTTTCTAATGCAAGTGGATGGAAAACCCAAATGTTGCTTCTTTAA 480 PTESDFLMQVDGKPKCCFFK 481 ATTTAGCTCTAAAATACAATACAATAAAGTAGTAAAGGCCCAACTATGGATATATTTGAG 540 F S S K I Q Y N K V V K A Q L W I Y L R 541 ACCCGTCGAGACTCCTACAACAGTGTTTGTGCAAATCCTGAGACTCATCAAACCTATGAA 600 PVETPTTVFVQILRLIKPMK 601 AGACGGTACAAGGTATACTGGAATCCGATCTCTGAAACTTGACATGAACCCAGGCACTGG 660 D G T R Y T G I R S L K L D M N P G T G 661 TATTTGGCAGAGCATTGATGTGAAGACAGTGTTGCAAAATTGGCTCAAACAACCTGAATC 720 IWQSIDVKTVLQNWLKQPES 721 CAACTTAGGCATTGAAATAAAAGCTTTAGATGAGAATGGTCATGATCTTGCTGTAACCTT 780 NLGIEIKALDENGHDLAVTF 781 CCCAGGACCAGGAGAAGATGGGCTGAATCCGTTTTTAGAGGTCAAGGTAACAGACACACC 840 PGPGEDGLNPFLEVKVTDTP 841 AAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGATG 900 K|R S R R|D F G L D C D E H S T E S R C 901 CTGTCGTTACCCTCTAACTGTGGATTTTGAAGCTTTTGGATGGGATTGGATTATCGCTCC 960 CRYPLTVDFEAFGWDWIIAP 961 TAAAAGATATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGTATTTTTACAAAAATA 1020 KRYKANYCSGECEFVFLQKY 1021 TCCTCATACTCATCTGGTACACCAAGCAAACCCCAGAGGTTCAGCAGGCCCTTGCTGTAC 1080 P H T H L V H Q A N P R G S A G P C C T 1081 TCCCACAAAGATGTCTCCAATTAATATGCTATATTTTAATGGCAAAGAACAAATAATATA 1140 PTKMSPINMLYFNGKEQIIIY 1141 TGGGAAAATTCCAGCGATGGTAGTAGACCGCTGTGGGTGCTCATGAGATTTATATTAAGC 1200 G K I P A M V V D R C G C S \*

FIG. 5C



A STANCE OF STAN

1201 GTTCATAACTTCCTAAAACATGGAAGGTTTTCCCCTCAACAATTTTGAAGCTGTGAAATT 1260 1261 AAGTACCACAGGCTATAGGCCTAGAGTATGCTACAGTCACTTAAGCATAAGCTACAGTAT 1320 1381 AAGAAAGTTTTATGATTTCCAGAGTTTTTTGAGCTAGAAGGAGATCAAATTACATTTATGT 1440 1441 TCCTATATATACAACATCGGCGAGGAAATGAAAGCGATTCTCCTTGAGTTCTGATGAAT 1500 1501 TAAAGGAGTATGCTTTAAAGTCTATTTCTTTAAAGTTTTGTTTAATATTTTACAGAAAAAT 1560 1561 CCACATACAGTATTGGTAAAATGCAGGATTGTTATATACCATCATTCGAATCATCCTTAA 1620 1621 ACACTTGAATTTATATTGTATGGTAGTATACTTGGTAAGATAAAATTCCACAAAAATAGG 168C 1681 GATGGTGCAGCATATGCAATTTCCATTCCTATTATAATTGACACAGTACATTAACAATCC 1740 1741 ATGCCAACGGTGCTAATACGATAGGCTGAATGTCTGAGGCTACCAGGTTTATCACATAAA 1800 1801 AAACATTCAGTAAAATAGTAAGTTTCTCTTTTCTTCAGGTGCATTTTCCTACACCTCCAA 1860 1861 ATGAGGAATGGATTTTCTTTAATGTAAGAAGAATCATTTTTCTAGAGGTTGGCTTTCAAT 1920 1981 TATCAAAATGTCAAAATAACATACTTGGAGAAGTATGTAATTTTGTCTTTGGAAAATTAC 2040 2041 AACACTGCCTTTGCAACACTGCAGTTTTTATGGTAAAATAATAGAAATGATCGACTCTAT 2100 2101 CAATATTGTATAAAAAGACTGAAACAATGCATTTATATAATATGTATACAATATTGTTTT 2160 2161 GTAAATAAGTGTCTCCTTTTTTATTTACTTTGGTATATTTTTTACACTAAGGACATTTCAA 2220 2221 ATTAAGTACTAAGGCACAAAGACATGTCATGCATCACAGAAAAGCAACTACTTATATTTC 2280 2281 AGAGCAAATTAGCAGATTAAATAGTGGTCTTAAAACTCCATATGTTAATGATTAGATGGT 2340 2341 TATATTACAATCATTTTTATATTTTTTTACATGATTAACATTCACTTATGGATTCATGATG 2400 2401 GCTGTATAAAGTGAATTTGAAATTTCAATGGTTTACTGTCATTGTGTTTAAATCTCAACG 2460 2461 TTCCATTATTTAATACTTGCAAAAACATTACTAAGTATACCAAAATAATTGACTCTATT 2520 2521 ATCTGAAATGAAGAATAAACTGATGCTATCTCAACAATAACTGTTACTTTTATTATAA 2580 2581 TTTGATAATGAATATTTCTGCATTTATTTACTTCTGTTTTGTAAATTGGGATTTTGTT 2640 2641 AATCAAATTTATTGTACTATGACTAAATGAAATTATTTCTTACATCTAATTTGTAGAAAC 2700 2701 AGTATAAGTTATATAAAGTGTTTTCACATTTTTTTGAAAGAC 2743

FIG. 5D



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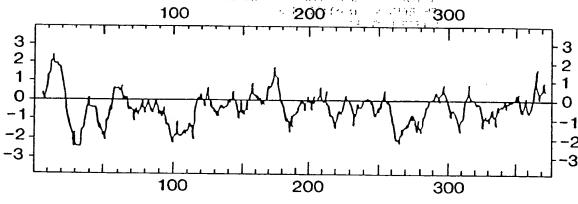


FIG. 6A

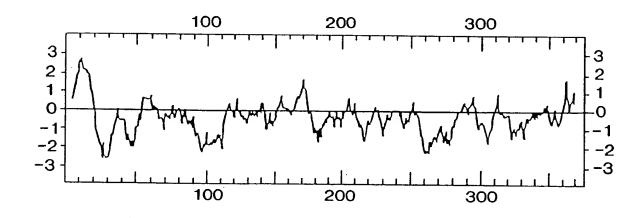


FIG. 6B



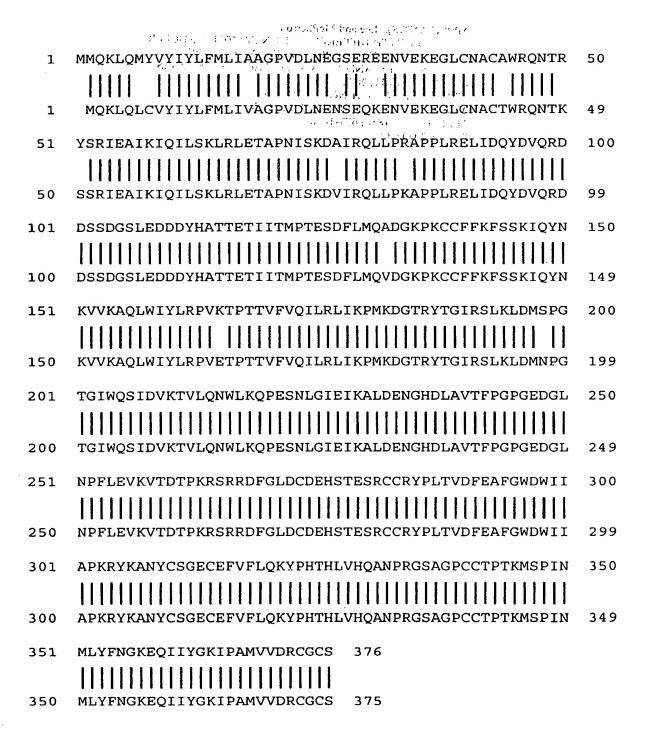


FIG. 7



A CONTROL OF THE SECRET OF THE

SOLUBLE
INSOLUBLE
(LOAD)

PELLET

FLOW-THROUGH

WASH pH8

WASH pH6.3

FRACTION 1

FRACTION 2

FRACTION 3

FRACTION 4

FRACTION 5

FRACTION 6

TOTAL

pH5.9

FIG. 8



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INTESTINE

**SPLEEN** 

**TESTIS** 

**MUSCLE** 

LIVER

OVARY

FAT

**UTERUS** 

2.9





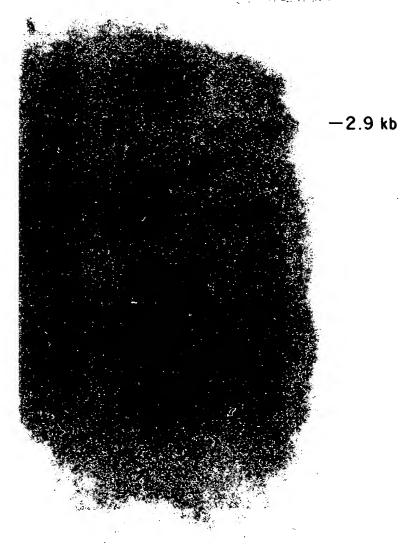


FIG. 10b



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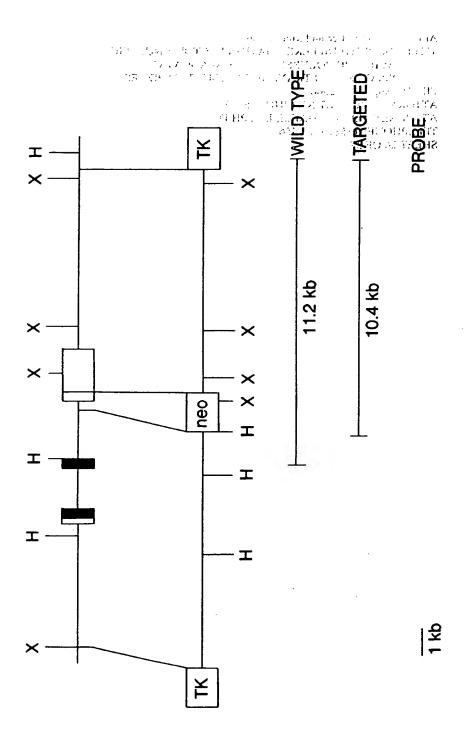


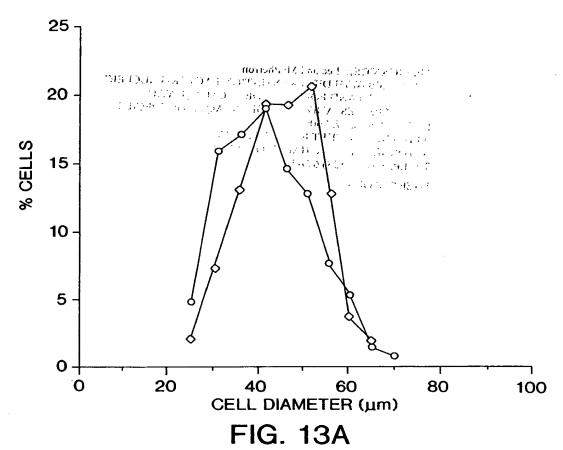
FIG. 12A

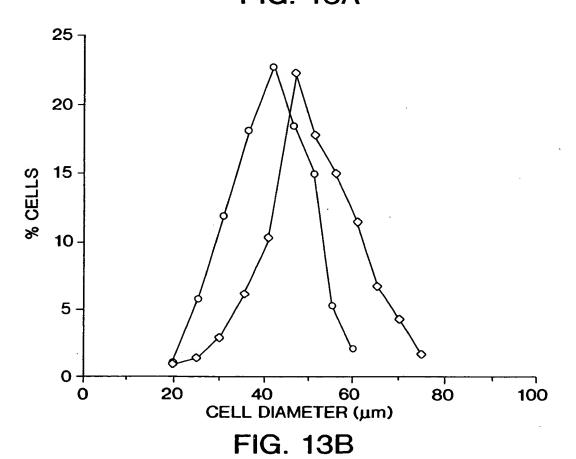


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### Cool DNA [Strand]

. ACTOCCCCGAGTOCCGGTGCTGCCCCTACCCCCTCACAGTGGACTTTGAAGACTTTGGCTGGGACTGGGTGATOGCGCCCAAGCG × д æ > 3 Ω 3 ര ഥ Ω ĹЦ ſτι Ω > H Н ρι × æ Ö Ö ഗ Д ß

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CCCCGGGGCAACGCTGGCTGCTGCTGCCCACCAAGATGTCCCCCATCAACATGCTCTACTTCAACCGCAAGGAGCAGATCA Н OL: ш K ſτι × Ы Σ z н വ ß Σ × Н Д E O Ö Д ტ ø Z G  $\alpha$ വ 171

AMUCY FACIO!" Control Control

TCTACGGCAAGCTGCCCTCTATGGTCGTA > > × Ŋ Д П × O, × 256

## Sea Bass [Strand]

TGCTGCCGCTACCCACTCACAGTGGACTTTGAAGACTTTGGTTGG	GCTCCGGGGAGTGTGAATTGCAGAAGTATCCGCACACCCAGCCACAACCAAAGCCAACCCAGAGGAAGGGGGG	171 TCCTGCTGCACCCGACCAAGATGTCGCCCATWAACATGCTCTACTTTAACCGAAAAGAGCAGATAATCTACGGCAAGÁTCCCT PCCT PTKMSP?NMLYFNRKEQIIX		Control of the contro
DECTECCECTACCCACTCAC	GCTCCGGGGAGTGTGAGTA CSGECEY	TCCCTGCTGCACCCCGACC	256 TCCATGGTGGTG	> > ន
-	98	171	256	

## Sea. Bream DNA [Strand]

TCTCAGAGTCCCGGTGCCGCTACCGCTCACGGTGGACTTCGAAGACTTTGGCTGGGACTGGATTATTGCCCCAAAGCGCTA Н М О М O L L Гц ĸ

H L V N K A H Ħ Д × × ø EYMHL ပ ы U Ŋ Ö × N A .86

AGAGGGTCCGCGGGCCCCTGCTGTACCCCCACCAAGATGTCGCCCATCAACATGCTCTACTTTAACCGAAAGGAGGAGATCATCT Ŀ Z T NNI Д Ø T X M щ ы O U ဟ & S တ 171

256

ACGGCAAGATCCCGTCCATGGTGGTA ტ

## Tautog DNA [Strand]

86

GAGGGACTGCAGGCCCCTGCTGCACCCCCACCAAGATGTCGCCCATCAACATGCTCTACTTTAACCGAAAGGAGCAGATCATCTA æ z Ľ Ц N Н Д ഗ × E ρι E O ပ വ ഗ R G T A 171

CGGCAAGATCCCCTCCATGGTGGTG ഗ 256

## X. laevis T7 [Strand]

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AACAAATCATATATGGAAAAATTCCAGCTATGGTGGTA 171

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MDWIIAPKRYKANYCWDWIIAPKRYKANYCWDWIIAPKRYKANYCWDWIIAPKRYKANYCWDWIIAPKRYKANYC	FGWDWILAPKRYKA FGWDWILAPKRYKA FGWDWILAPKRYKA	HTHLVHOANPRGSAGPCHTHLVNKANPRGTAGPCHTHLVNKANPRGTAGPC	PHTHLVHKASPRGNAGPCCPHTHLVNKANPRGTAGPCCPHTHLVNKANPRGTAGPCCPHTHLVNKANPRGTAGPCCPHTHLVNKANPRGTAGPCCPHTHLVQQANPRGSAGPCC	YFNGKEQIIYGKIPAMVVYFNGKEQIIYGKIPSMVVYYFNRKEQIIYGKIPSMVVYYFNRKEQIIYGKIPSMVV	FNRKEQIIYGKIPSMV FNRKEQIIYGKIPSMV FNRKEQIIYGKIPSMV FNENEQIIYGKIPAMV
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Sea Bass Sea Bream

Tautog X. laevis

Zebrafish Salmon Cod

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humanMSTN

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Salmon

**NUMBANIMSTIN** Zebrafish Cod Sea Bass Sea Bream

Tautog X. laevis

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Decoration 'Decoration #1': Shade (with solid black) residues that match humanMSIN exactly.

MMM

Tautog X. laevis

Sea Bream Sea Bass

HHH<mark>X</mark>HHH AAAAAAAA

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humanMSTN

Zebrafish

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	Percent Similarity													
[		1	2	3	4	<sup>  </sup> 5		7	8.					
	1		88.8	89.9	87.6	88.8	91.0	88.8	92.8	1	humanMSTN			
	2	11.2	00.0	95.5	93.3	94.4	94.4	94.4	84.1	2	Zebrafish			
nce		10.1	4.5		93.3	98.9	98.9	98.9	85.5	3	Salmon			
Percent Divergence	3		6.7	6.7	e a	92.1	93.3	92.1	82.6	4	Cod			
)ive	4	12.4		0.0	6.8	1	97.8	97.8	84.1	5	Sea Bass			
nt [	5	10.2	4.5					97.8	87.0	6	Sea Bream			
ဦ	6	9.0	5.6	1.1	6.7	1.1								
Pe	7	11.2	5.6	1.1	7.9	1.1	2.2	E	85.5	7	Tautog			
	8	7.2	15.9	14.5	17.4	14.7	13.0	14.5		8	X. laevis			
		1	2	3	4	5	6	7	8					

FIG. 20



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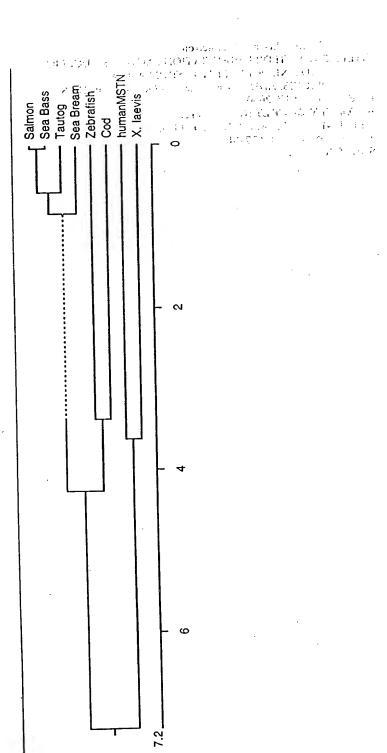


FIG. 2